

Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

5 21. (Thrice Amended) An anchoring apparatus for use in a tubular member disposed in a wellbore, the apparatus comprising:

- a top swage member;

- a first cylindrical anchoring member disposed about said top swage member, said first cylindrical anchoring member being made of a metal harder than the tubular member,
10 said first anchoring member containing a first continuous plurality of expandable circumferential ribs formed thereon; wherein said first plurality of circumferential ribs at least partially embedding in the tubular member to form a substantially metal-to-metal seal with the tubular member and being free of an elastomeric seal;

- a setting tool for driving said top swage into said first cylindrical member ~~into~~
15 ~~said top swage~~ and radially deforming said first cylindrical anchoring member so that said first plurality of circumferential ribs are expanded outward; and

- an extension member having a first end attached to said first cylindrical anchoring member.

20 22. (Canceled)

23. (Previously Amended) The apparatus claim 22 wherein said first cylindrical anchoring member further comprises an elastomeric seal set apart from said first plurality of

circumferential ribs.

24. (Thrice Amended) The apparatus of claim 23 further comprising:

- a second cylindrical anchoring member attached to a second end of said
5 extension member, said second cylindrical anchoring member including a second plurality of
circumferential ribs disposed about said second cylindrical anchoring member, said second
plurality of circumferential ribs being configured to produce a slight indentation profile in the
tubular member when expanded to form a metal-to-metal seal ~~to provide a substantially metal-~~
~~to-metal seal with the tubular member;~~

10 - a bottom swage member disposed within said second cylindrical anchoring
member;

- and wherein said setting tool is further adapted for driving said bottom swage
member into said second cylindrical anchoring member and radially deforming said second
cylindrical anchoring member so that said second plurality of circumferential ribs are expanded
15 outward.

25. (Original) The apparatus of claim 24 wherein said second cylindrical anchoring
member is made of a malleable metal having a hardness of 105 or less on the Rockwell B
scale.

20 26. (Previously Amended) The apparatus of claim 25 wherein said second cylindrical
anchoring member further comprises an elastomeric seal set apart from said second plurality of
circumferential ribs.

27. (Original) The apparatus of claim 23 wherein said extension member has attached thereto a bridge plug device.

5 28. (Original) The apparatus of claim 26 wherein said bottom swage member has a first cylindrical surface that extends to a second conical surface, and wherein said first cylindrical surface is concentrically disposed within said second cylindrical anchoring member.

29. (Original) A method of sealing and anchoring a device within a tubular member
10 comprising:

- positioning the device in an internal diameter wall of the tubular member, the device comprising: a top swage disposed within the tubular member, said top swage having a longitudinal center of axis; a first cylindrical sealing member disposed partially about said top swage, said first cylindrical sealing member containing a first plurality of continuous
15 circumferential annular grooves disposed about said first cylindrical sealing member so that a first plurality of continuous, circumferential ribs are formed; and wherein said first cylindrical sealing member is made of a malleable metal;

- driving said top swage downward relative to said top swage's longitudinal center of axis with a setting tool member, said setting tool member being selectively attached to
20 the device;

- deforming the first cylindrical sealing member;

- expanding the first cylindrical sealing member radially outward;

- embedding at least one of said first plurality of continuous, circumferential ribs

into the internal diameter wall;

- sealing the device within the internal diameter wall with at least one of said first plurality of continuous, circumferential ribs;

- anchoring the device within the internal diameter wall with at least one of said first plurality of continuous, circumferential ribs.

30. (Original) The method of claim 29 wherein said device further comprises a first elastomeric member circumferentially disposed on said first cylindrical sealing member and wherein the step of expanding the first cylindrical sealing member radially outward includes:

- forcing the first elastomeric member against the internal diameter wall;
- providing a secondary seal for the device within the internal diameter wall.

31. (Original) The method of claim 30 wherein the device further includes a second cylindrical sealing member attached to said first cylindrical sealing member, said second cylindrical sealing member containing a second plurality of continuous, circumferential annular grooves disposed about said second cylindrical sealing member so that a second plurality of continuous circumferential ribs are formed; and wherein said second cylindrical sealing member is made of a malleable metal and has a top end and a bottom end; a bottom swage disposed partially within said second cylindrical sealing member, said bottom swage having a longitudinal center of axis; and the method further comprises:

- driving said bottom swage longitudinally upward relative to said bottom swage's longitudinal center of axis with the setting tool member;
- deforming the second cylindrical sealing member;

- expanding the second cylindrical sealing member radially outward;
- embedding at least one of said second plurality of continuous, circumferential ribs into the internal diameter wall;

- sealing the device within the internal diameter wall with at least one of said
- 5 second plurality of continuous, circumferential ribs;
- anchoring the device within the internal diameter wall with at least one of said
- second plurality of continuous, circumferential ribs.

32. (Original) The method of claim 31 wherein the second cylindrical sealing member

10 further comprises a second elastomeric member circumferentially disposed thereon and wherein the step of expanding the second cylindrical sealing member radially outward includes:

- forcing the elastomeric member against the internal diameter wall;
- providing a tertiary seal for the device within the internal diameter wall;
- and wherein the step of driving said top and bottom swage upward and
- 15 downward includes:

- pumping a hydraulic fluid;
- forcing a power piston in the setting tool member in an upward direction so that
- said bottom swage is moved upward;
- forcing an outer sleeve in the setting tool member in a downward direction so
- 20 that the upper swage is moved downward.

33. (Original) The method of claim 32 further comprising:

- shearing a shear ring operatively attaching the device to the setting tool

member;

- retrieving the setting tool member from the tubular member.

34. (Thrice Amended) An apparatus for sealing and anchoring within a tubular member disposed in a wellbore, the apparatus comprising:

- a top swage member;

- a first cylindrical sleeve being at least partially disposed within said top swage, said first sleeve including a first plurality of circumferential ribs disposed thereon for forming a substantially metal-to-metal seal with the tubular member by embedding into the tubular member and a first elastomeric seal spaced apart from said first plurality of circumferential ribs, said ribs at least partially embedding in the tubular member to form said seal;

- a setting tool for driving said top swage member into said first cylindrical sleeve and wherein driving of said top swage member radially deforms said first cylindrical sleeve so that said first cylindrical sleeve expands radially outward.

35. (Previously Amended) The apparatus of claim 34 further comprising:

- a second cylindrical sleeve connected to said first cylindrical sleeve, said second cylindrical sleeve including a second plurality of circumferential ribs disposed thereon for forming a substantially metal-to-metal seal with the tubular member;

- a bottom swage member disposed within said second cylindrical sleeve;

- and wherein said setting tool is further adapted for driving said bottom swage into said second cylindrical sleeve such that said swage member radially deforms said second cylindrical sleeve so that said second cylindrical sleeve expands radially outward.

36. (Previously Amended) The apparatus of claim 35 further comprising a series of annular grooves associated with said first and second plurality of circumferential ribs.

5 37. (Previously Amended) The apparatus of claim 36 wherein said second cylindrical sleeve has disposed thereon a second elastomeric seal set apart from said second plurality of circumferential grooves.

38. (Twice Amended) An apparatus for anchoring a downhole assembly in a tubular member disposed in a wellbore, comprising:

10 - an anchoring member associated with the downhole assembly, said anchoring member including a substantially circumferential rib element for providing a substantially metal-to-metal seal with the tubular member when radially expanded into engagement with the tubular member said circumferential rib element being relatively harder than the tubular member and
15 shaped to form a slight indentation in the tubular such that said rib at least partially embeds in
~~the tubular member.~~

39. (Original) The apparatus according to claim 38 wherein said anchoring member includes a Teflon coating.

20 40. (Canceled)

41. (Original) The apparatus according to claim 38 further comprising a swage

member for radially expanding said anchoring member.

42. (Original) The apparatus according to claim 39 further comprising a setting tool for driving said swage member.

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43. (Original) The apparatus according to claim 38 further comprising an elastomeric member disposed on said sealing member at a spaced apart distance from said rib element, said elastomeric member providing a secondary seal when expanded.

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44. (Canceled)

45. (Canceled)

46. (Canceled)

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47. (Canceled)

48. (Twice Amended) An anchoring system for use in a wellbore having a tubular disposed therein, comprising:

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(a) a downhole tool for performing a predetermined task in the wellbore;

(b) an anchoring assembly for affixing said tool in the tubular, said anchoring assembly including a sealing member provided with a rib element adapted to form a

substantially metal-to-metal seal with the tubular when expanded, said sealing member being relatively harder than the tubular member and shaped to form a slight indentation in the tubular member such that said rib element at least partially embeds in the tubular; and

(c) a setting tool for expanding said rib element.

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49. (Original) The anchoring system according to claim 48 further comprising a swage cooperating with said setting tool to engage and expand said sealing member.

50. (Original) The anchoring system according to claim 48 wherein said downhole
10 tool is selected from a group consisting of (i.) a tubing patch, (ii.) a casing patch, (iii.) a gravel pack assembly, and (iv.) a bridge plug.

51. (Original) The anchoring system according to claim 48 wherein said setting tool is one of (i.) hydraulically operated and (ii.) explosively actuated.